



BUCKET NO.: CELL-0317/PA558-USW01  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Timothy John Norman

Application No.: 10/583,642

Filing Date: June 20, 2006

For: **BRANCHED MOLECULAR SCAFFOLDS FOR LINKING POLYMER  
RESIDUES TO BIOLOGICALLY ACTIVE MOIETIES**

Confirmation No.: 3724

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: *February 22, 2007*

I HEREBY CERTIFY THAT THIS PAPER IS BEING  
DEPOSITED WITH THE UNITED STATES POSTAL  
SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID,  
ON THE DATE INDICATED ABOVE AND IS  
ADDRESSED TO THE UNITED STATES PATENT AND  
TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA,  
VA 22313-1450.

*Elizabeth A. McLoud*  
TYPED NAME: Elizabeth A. McLoud

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

- ☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

- ☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☒ Copies of reference numbers **24 - 63** listed on the attached Form PTO-1449 are enclosed herewith.

- ☒ Copies of reference numbers **1 - 23** on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

- ☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

DOCKET NO.: CELL-0317/PA558-USW01  
PATENT

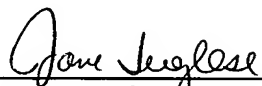
- 3 -

- ☐ The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: February 22, 2007

  
\_\_\_\_\_  
Jane E. Inglese  
Registration No. 48,444

WOODCOCK WASHBURN LLP  
Cira Centre  
2929 Arch Street, 12th Floor  
Philadelphia, PA 19104-2891  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439



<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. CELL-0317/ PA558-USw01	Application No. 10/583,642
	Applicant Timothy John Norman	
	Filing Date June 20, 2006	Group Not Yet Assigned
	Confirmation No. 3724	

**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	1	4,946,778	08/07/90	Ladner, et al.	435	69.6
	2	5,219,996	06/15/93	Bodner, et al.	530	387.3
	3	5,223,409	06/29/93	Ladner, et al.	435	69.7
	4	5,403,484	04/04/95	Ladner, et al.	435	235.1
	5	5,427,908	06/27/95	Dower, et al.	435	5
	6	5,516,637	05/14/96	Huang, et al.	435	6
	7	5,571,698	11/05/96	Ladner, et al.	435	69.7
	8	5,580,717	12/03/96	Dower, et al.	435	5
	9	5,585,089	12/17/96	Queen, et al.	424	133.1
	10	5,658,727	08/19/97	Barbas, et al.	435	6
	11	5,677,425	10/14/97	Bodmer, et al.	530	387.1
	12	5,698,426	12/15/97	Huse	435	172.3
	13	5,733,743	03/31/98	Johnson, et al.	435	69.1
	14	5,750,753	05/12/98	Kimae, et al.	556	440
	15	5,780,225	07/14/98	Wigler, et al.	435	6
	16	5,821,047	10/13/98	Garrard, et al.	435	5
	17	5,932,462	08/03/99	Harris, et al.	435	188
	18	5,969,108	10/19/99	McCafferty, et al.	530	387.3
	19	6,251,382 B1	06/26/01	Greenwald, et al.	424	78.17
	20	6,362,254 B2	03/26/02	Harris, et al.	523	406

**EXAMINER****DATE CONSIDERED**

<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. CELL-0317/ PA558-USw01	Application No. 10/583,642
	Applicant Timothy John Norman	
	Filing Date June 20, 2006	Group Not Yet Assigned
	Confirmation No. 3724	

### U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	21	2002/009426 A1	01/24/02	Greenwald, et al.	424	78.18
	22	2003/021790 A1	01/30/03	Hsei, et al.	424	178.1
	23	2004/225097 A1	11/11/04	Nho, et al.	526	333

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
-----------------	------------------------

<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office				Docket No. CELL-0317/ PA558-USw01		Application No. 10/583,642	
				Applicant Timothy John Norman			
				Filing Date June 20, 2006		Group Not Yet Assigned	
				Confirmation No. 3724			
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Document No.	Date	Country	Translation		
					YES	NO	
	24	WO 90/02809 A1	03/22/90	PCT			
	25	WO 91/10737 A1	07/25/91	PCT			
	26	WO 92/01047 A1	01/23/92	PCT			
	27	WO 92/02551 A1	02/20/92	PCT			
	28	WO 92/18619 A1	10/29/92	PCT			
	29	WO 92/22853 A1	12/23/92	PCT			
	30	WO 93/08829 A1	05/13/93	PCT			
	31	WO 93/11236 A1	06/10/93	PCT			
	32	WO 95/15982 A2	06/15/95	PCT			
	33	WO 95/20401 A1	08/03/95	PCT			
	34	WO 98/25971 A1	06/18/98	PCT			
	35	WO 02/27315 A3	04/04/02	PCT			
	36	WO 03/031475 A3	04/17/03	PCT			
	37	WO2005/003169 A3	01/13/05	PCT			
	38	WO2005/002870 A1	01/13/05	PCT			
	39	WO2005/002871 A1	01/13/05	PCT			
	40	WO2005/061005 A2	07/07/05	PCT			
	41	1 496 076 A1	01/12/05	EP			
	42	0 315 450	07/10/29	GB			

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
-----------------	------------------------

<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. CELL-0317/ PA558-USw01	Application No. 10/583,642
	Applicant Timothy John Norman	
	Filing Date June 20, 2006	Group Not Yet Assigned
		Confirmation No. 3724

### FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
	43	0 315 457	07/15/29	GB		
	44	0 319 588	03/23/31	GB		
	45	0 329 825	05/29/80	GB		

EXAMINER	DATE CONSIDERED
----------	-----------------

<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office	Docket No. CELL-0317/ PA558-USw01	Application No. 10/583,642
	Applicant Timothy John Norman	
	Filing Date June 20, 2006	Group Not Yet Assigned
	Confirmation No. 3724	

**NON-PATENT DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	<b>46</b>	Ames, R.S., et al., "Conversion of murine Fabs isolated from a combinatorial phage display library to full length immunoglobulins," J. Immunol. Methods, 1995, 184, 177-186
	<b>47</b>	Badcook, J., et al., "A novel strategy for generating monoclonal antibodies from single, isolated lymphocytes producing antibodies of defined specificities," Proc. Natl. Acad. Sci. USA, 1996, 93, 7843-7848
	<b>48</b>	Brinkman, U., et al., "Phage display of disulfide-stabilized Fv fragments," J. Immunol. Methods, 1995, 182, 41-50
	<b>49</b>	Burton, D.R., et al., "Human antibodies from combinatorial libraries," Advances in Immunology, 1994, 57, 191-280
	<b>50</b>	Chapman, A.P., et al., "Therapeutic antibody fragments with prolonged in vivo half-lives," Nature Biotechnology, 1999, 17(8), 780-783
	<b>51</b>	Chapman, A.P., "PEGylated antibodies and antibody fragments for improved therapy: a review," Advanced Drug Delivery Reviews, 2002, 54, 531-545
	<b>52</b>	Cole, et al., "The EBV-hybridoma technique and its application to human lung cancer," Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc., 1985, 77-96
	<b>53</b>	Greenwald, R.B., et al., "Highly water soluble taxol derivatives: 7-polyethylene glycol carbamates and carbonates," J. Org. Chem., 1995, 60, 331-336
	<b>54</b>	Hurwitz, E., et al., "Inhibition of tumor growth by poly(ethylene glycol) derivatives of anti-ErbB2 antibodies," Cancer Immunology & Immunotherapy, 2000, 49(4-5), 226-234
	<b>55</b>	Kettleborough, C.A., et al., "Isolation of tumor cell-specific single-chain Fv from immunized mice using phage-antibody libraries and the re-construction of whole antibodies from these antibody fragments," Eur. J. Immunol., 1994, 24, 952-958
	<b>56</b>	Köhler, G., et al., "Continuous cultures of fused cells secreting antibody of predefined specificity," Nature, 1975, 256, 495-497
	<b>57</b>	Kozbor, D., et al., "the production of monoclonal antibodies from human lymphocytes," Immunology Today, 1983, 4, 72-79
	<b>58</b>	Mantovani, G., et al., "Design and synthesis of N-maleimido-functionalized hydrophilic polymers via copper mediated living radical polymerization: a suitable alternative to PEGylation chemistry," J. Am. Chem. Soc., 127(9), 2966-2973
	<b>59</b>	Milstein, C., et al., "Hybrid hybridomas and their use in immunohistochemistry," Nature, 1983, 305, 537-539

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
-----------------	------------------------



Confirmation No.  
3724

### NON-PATENT DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

60	Natarajan, A., et al., "Characterization of site specific ScFv PEGylation for tumor targeting pharmaceuticals," <i>Bioconjugate Chem.</i> , 2005, 16(1), 113-121
61	Persic, L., et al., "An integrated vector system for the eukaryotic expression of antibodies or their fragments after selection from phage display libraries," <i>Gene</i> , 1997, 187, 9-18
62	Tessmar, J., et al., "The use of poly(ethylene glycol)-block-poly(lactic acid) derived copolymers for the rapid creation of biomimetic surfaces," <i>Biomaterials</i> , 2003, 24(24), 4475-4486
63	Traunecker, A., et al., "Bispecific single chain molecules (Janusins) target cytotoxic lymphocytes on HIV infected cells," <i>EMBO J.</i> , 1991, 10, 3655-3659

DATE CONSIDERED